

Derek Ni

(703) 675-8732 | dan82@cornell.edu
<https://derekni.com> | <https://github.com/derekni>

Education

Cornell University

B.S. Computer Science; GPA: 4.13

Ithaca, NY

Expected May 2022

Courses: Object Oriented Programming and Data Structures, Discrete Structures, Functional Programming, Intro to Backend Development, Multivariable Calculus, Linear Algebra, Basic Engineering Probability and Statistics

Thomas Jefferson High School for Science and Technology

GPA: 4.48 (weighted), 3.88 (unweighted); SAT: 1580/1600

Alexandria, VA

June 2019

Webmaster of Mobile Apps Club, Captain of Varsity Tennis Team, National AP Scholar, National Merit Finalist

Courses: Mobile App Development, Web App Development, Artificial Intelligence

Work Experience

MITRE Corporation

Software Engineer Intern

McLean, VA

May 2020 - August 2020

- Tested and evaluated 5 synthetic audio ML models using Python scripts, shell scripts and SCLite.
- Created spreadsheets from training data evaluations to cherry-pick training data for ML models.
- Generated synthetic images using WGANs, LSGANs, and DCGANs training on the CIFAR-10 dataset.

Cornell University

CS 2110 Consultant

Ithaca, NY

August 2020 - Present

- Host weekly office hours to help students with object-oriented programming concepts.
- Grade and give feedback on coding assignments, quizzes and exams.

Projects

Jimmy Jumper | C#, Unity

A mobile runner game where the player runs and jumps on platforms in the sky.

Johnny Jumper | JavaScript, Phaser

A mobile jump game where the player jumps on platforms to reach the sky.

Othello AI | Python

Othello program that evaluates future board states using varying heuristics to choose the best move to make.

TaskTime | Swift, XCode

Productivity app to motivate users to complete to-dos and maintain healthy habits through a points system.

Organizations

Cornell ACSU

Academic Officer

Ithaca, NY

October 2019 - Present

- Organize academic events for students interested in computer science.
- Collaborate with other clubs to increase outreach with activities such as coding workshops.

Southgate GIVE

Center Manager

Reston, VA

September 2015 - June 2019

- Coordinated scheduling with local community center and tutors to organize tutoring sessions.
- Managed tutors and met with parents before and after sessions to set and clarify goals.
- Advertised through social media, emails and partnerships with local elementary schools.

Skills & Interests

Skills: Python, Java, C#, Swift, JavaScript, OCaml, HTML and SQL

Interests: Reading, tennis, piano, podcasts and running